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Multilayer structure for retort packaging materials - comprises moisture permeable thermoplastic resin layer, oxygen@ barrier layer on both sides, and inner moisture-impermeable layer

Patent Assignee: NIPPON SYNTHETIC CHEM IND CO (NISY)

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Patent Family (2 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
JP 8058036	A	19960305	JP 1994225607	A	19940826	199619 B
JP 3425479	B2	20030714	JP 1994225607	A	19940826	200347 E

Priority Applications (no., kind, date): JP 1994225607 A 19940826

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 8058036	A	JA	11	0	
JP 3425479	B2	JA	10		Previously issued patent JP 08058036

Alerting Abstract JP A

The structure comprises (I) a thermoplastic resin layer having moisture permeability of 10-500 g/m² day at 40(deg)C and 90% RH, (II) an oxygen barrier layer on the both sides of (I) and (III) a thermoplastic resin layer at innermost layer having lower moisture permeability than (I). (II) comprises a compsn. comprising (a) a saponified ethylene-vinylacetate copolymer having a degree of saponification of at least 90 mol % and an ethylene content of 20-60 mol %, (b) an end gp. regulated polyamide resin having main repeating unit of capramide, a ratio of methylene and amide equals to or larger than 5.20 and equals to or less than 6.50 and the end amino gp. content (Y) is less than the end carboxyl content (X) plus 5 (microequiv./g polymer), (c) a hindered phenol type cpd., (d) an alkali earth metal aliphatic carboxylate, (e) at least one of an

ethylene bis fatty acid amide, higher aliphatic acid metal salt, polymeric ester, fatty acid ester, hydrocarbons wherein (a):(b) = 70:30-96:4, (c)/((a) plus (b)) = 0.01-1 wt.%, (d)/((a) plus (b)) = 0.5-15 micro-mol/g, (e)/((a) plus (b)) = 0.01-1 wt.%.

USE - Used in retort packaging materials including a film, bag, container and lid.

ADVANTAGE - Good oxygen barrier property at room temp., with rapid recovery of oxygen barrier property after sterilisation as that before sterilisation. The film made of the structure has a good appearance with less gel or fish eye.

Title Terms /Index Terms/Additional Words: MULTILAYER; STRUCTURE; RETORT; PACKAGE; MATERIAL; COMPRISE; MOIST; PERMEABLE; THERMOPLASTIC; RESIN; LAYER; OXYGEN; BARRIER; SIDE; INNER

Class Codes

International Classification (Main): B32B-027/28

(Additional/Secondary): B32B-027/00, B32B-027/08, B32B-027/32, B32B-027/34, B32B-027/36, B65D-065/40, B65D-081/34, C08L-023/08

File Segment: CPI; EngPI

DWPI Class: A23; A92; P73; Q34

Manual Codes (CPI/A-M): A05-F03; A08-A06; A08-M; A08-M03B; A09-A09; A10-E09B; A12-P01

Chemical Indexing

Specific Compound Numbers: R00326; R00835

Derwent Chemistry Resource Numbers: (Linked) 1013-DIS; 829-DIS; 1013; 829

Key Word Indexing

1 1013-DIS 829-DIS

Polymer Indexing

<01>

001 018; G0033-R G0022 D01 D02 D51 D53; H0317; H0000; H0011-R; S9999 S1285-R; P1150

002 018; B9999 B4875 B4853 B4740

003 018; ND01; ND04; Q9999 Q8366-R; Q9999 Q8399-R Q8366; Q9999 Q8560
Q8366; Q9999 Q8399-R Q8366; Q9999 Q8413 Q8399 Q8366; Q9999 Q8388
Q8366; B9999 B4397 B4240; K9676-R; K9701 K9676; K9574 K9483; B9999
B3178; K9370; B9999 B4864 B4853 B4740

<02>

001 018; H0317; P0839-R F41 D01 D63; S9999 S1285-R

002 018; P0862 P0839 F41 F44 D01 D63; H0317; S9999 S1285-R

003 018; ND01; ND04; Q9999 Q8366-R; Q9999 Q8399-R Q8366; Q9999 Q8560
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Q8366; B9999 B4397 B4240; K9676-R; K9701 K9676; K9574 K9483; B9999
B3178; K9370; B9999 B4864 B4853 B4740

004 018; K9712 K9676; B9999 B4875 B4853 B4740

<03>

001 018; H0317; P0635-R F70 D01; S9999 S1285-R

002 018; P0646 P1934 P0635 F70 D01 D11 D10 D50 D86; S9999 S1285-R

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Q8366; B9999 B4397 B4240; K9676-R; K9701 K9676; K9574 K9483; B9999
B3178; K9370; B9999 B4864 B4853 B4740

004 018; B9999 B4784 B4773 B4740

005 018; K9712 K9676; B9999 B4875 B4853 B4740

<04>

001 018; G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 R00326-R
1013-R; G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84 F41 F89
R00835-R 829-R; H0022 H0011; M9999 M2313; S9999 S1285-R; P1150; P1310

002 018; G2084-R D01 F71; P0635-R F70 D01; P0055; S9999 S1285-R

003 018; ND01; ND04; Q9999 Q8366-R; Q9999 Q8399-R Q8366; Q9999 Q8560
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B3178; K9370; B9999 B4864 B4853 B4740

004 018; Q9999 Q6780

005 018; D01 D11 D10 D50 D61-R F35-R 2A-R; A999 A340-R

006 018; D01 D11 D10 D50 F70-R; A999 A340-R

007 018; D63 F41-R; A999 A793

008 018; D02 D01; A999 A793

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Japan

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****MULTILAYERED STRUCTURE AND MANUFACTURE THEREOF****

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